Contents Volume 117

117 (1/2)

First paleomagnetic evidence for a post-Eocene clockwise rotation of the Western Taurides thrust belt east of the Isparta reentrant (Southwestern Turkey)	
C. Kissel, O. Averbuch, D. Frizon de Lamotte, O. Monod and S. Allerton	1
polar wander path of Eurasia M. Westphal Clockwise rotation of the Red River fault inferred from paleomagnetic study of Cretaceous rocks in the Shan-Thai-Malay	15
block of western Yunnan, China S. Funahara, N. Nishiwaki, F. Murata, Yi. Otofuji and Y.Z. Wang.	29
Early tectonic extension between the Agulhas Bank and the Falkland Plateau due to the rotation of the Lafonia microplate Z. Ben-Avraham, C.J.H. Hartnady and J.A. Malan	43
The mechanics of continental extension in western North America: implications for the magmatic and structural evolution of the Great Basin	
D.L. Harry, D.S. Sawyer and W.P. Leeman	59
L.M. Parson, B.J. Murton, R.C. Searle, D. Booth, J. Evans, P. Field, J. Keeton, A. Laughton, E. McAllister, N. Millard, L. Redbourne, I. Rouse, A. Shor, D. Smith, S. Spencer, C. Summerhayes and C. Walker Basalts from Mururoa, Fangataufa and Gambier islands (French Polynesia): Geochemical dependence on the age of the	73
lithosphere C. Dupuy, P. Vidal, R.C. Maury and G. Guille	89
Phase transformations in subducted oceanic crust and buoyancy relationships at depths of 600-800 km in the mantle T. Irifune and A.E. Ringwood	101
Explosive volcanism and the compositions of cores of differentiated asteroids K. Keil and L. Wilson	111
Lanthanide and actinide chemistry at high C/O ratios in the solar nebula K. Lodders and B. Fegley, Jr.	125
On the ¹⁸ O/ ¹⁶ O record of reaction progress in open and closed metamorphic systems E.D. Young In vacuo crushing experiments and K-feldspar thermochronometry	147
T.M. Harrison, M.T. Heizler and O.M. Lovera Flow laws of multiphase rocks calculated from experimental data on the constituent phases	169
S. Ji and P. Zhao	181
C.J. Orth, M. Attrep, Jr., L.R. Quintana, W.P. Elder, E.G. Kauffman, R. Diner and T. Villamil	189
D. Colodner, J. Sachs, G. Ravizza, K. Turekian, J. Edmond and E. Boyle Detection of live magnetotactic bacteria in South Atlantic deep-sea sediments	205
H. Petermann and U. Bleil . Speculations about the cosmic origin of He and Ne in the interior of the Earth	223
C.J. Allègre, P. Sarda and T. Staudacher	229
A.A.M. van Hoof, B.J.H. van Os, J.G. Rademakers, C.G. Langereis and G.J. de Lange Partitioning of fluorine and chlorine between apatite and aqueous fluids at high pressure and temperature: implications for the F and Cl content of high P-T fluids	235
J.M. Brenan	251
A. Rocholl and K.P. Jochum Aqueous fluid connectivity and chemical transport in clinopyroxene-rich rocks	265
E.B. Watson and A. Lupulescu	279
C.Z. Mutter and J.C. Mutter	295

117 (3/4)

Environmental impact of volcanic margin formation	
O. Eldholm and E. Thomas	319
Distribution and evolution of carbon and nitrogen in Earth	
Y. Zhang and A. Zindler	331
The H ₂ O content of basalt glasses from Southwest Pacific back-arc basins	
L.V. Danyushevsky, T.J. Fallon, A.V. Sobolev, A.J. Crawford, M. Carroll and R.C. Price	347
Temperature and pressure dependence of quartz-aqueous fluid dihedral angles: the control of adsorbed H ₂ O on the	
permeability of quartzites	
M.B. Holness	363
The generation of uranium series disequilibria by partial melting of spinel peridotite: constraints from partitioning studies	
P. Beattie	379
The cooling history of the late Pliocene Eldzhurtinskiy granite (Caucasus, Russia) and the thermochronological potential of	
grain-size/age relationships	
J.C. Hess, H.J. Lippolt, A.G. Gurbanov and I. Michalski	393
Strategies for high-temperature oxygen isotope thermometry: a worked example from the Laramie Anorthosite Complex,	
Wyoming, USA	
J. Farquhar, T. Chacko and B.R. Frost	407
Power-law random behaviour of seismic reflectivity in boreholes and its relationship to crustal deformation models	
C.J. Bean and J. McCloskey	423
Changes in cadmium concentrations in Antarctic ice and snow during the past 155,000 years	
C.F. Boutron, S.N. Rudniev, M.A. Bolshov, V.G. Koloshnikov, C.C. Patterson and N.I. Barkov	431
Magnetostratigraphy of the Kavur Tepe section (southwestern Turkey): A magnetic polarity time scale for the Norian	
Y. Gallet, J. Besse, L. Krystyn, H. Théveniaut and J. Marcoux	443
Evidence for extension in the western Alpine orogen: the contact between the oceanic Piemonte and overlying continental	
Sesia units	
J. Wheeler and R.W.H. Butler	457
Seafloor spreading in the Weddell Sea and southwest Atlantic since the Late Cretaceous	
R.A. Livermore and R.W. Woollett	475
Silurian and Devonian paleomagnetic poles from North China and implications for Gondwana	
X. Zhao, R. Coe, H. Wu and Z. Zhao	497
Paleomagnetic results from Cretaceous and Jurassic rocks of South and Southwest Yunnan: evidence for large clockwise	
rotations in the Indochina and Shan-Thai-Malay terranes	
K. Huang and N.D. Opdyke	507
Paleomagnetic study of Permian and Mesozoic sedimentary rocks from Northern Thailand supports the extrusion model for	
Indochina	
Z. Yang and J. Besse	525
The rate and consequences of Sr diagenesis in deep-sea carbonates	
F.M. Richter and Y. Liang	553
Boron isotope systematics of marine sediments	
T. Ishikawa and E. Nakamura	567
Concentration and isotopic composition of Nd in the South Atlantic Ocean	
C. Jeandel	581
Carbon in the core	=0.0
B.J. Wood	593
Size distributions in two porous chondritic micrometeorites	
F.J.M. Rietmeijer	609
H ₂ O in basalt and basaltic andesite glass inclusions from four subduction-related volcanoes	640
T.W. Sisson and G.D. Layne	619
Cretaceous and Tertiary paleomagnetic results from Southeast China and their tectonic implications	
S.A. Gilder, R.S. Coe, H. Wu, G. Kuang, X. Zhao, Q. Wu and X. Tang	637
Dikes vs. diapirs in viscoelastic rock	(52
A.M. Rubin	653
Express Letter	
Rare-earth patterns with positive cerium anomaly in alkaline waters from Lake Van, Turkey	
P. Möller and M. Bau	671
	0.1
Author Index Volume 117	677

